

ENDOGEN[®]

Recombinant Rat IL-18

Ordering Code: RRIL18I

Size: 20 µg

Lot Number: FE70412

Storage: Store lyophilized material at 2 - 8°C.

Uses: For *in vitro* applications. A dose-response assay should be performed to determine the optimal concentration for specific experiments.

Activity: The biological activity of recombinant rat IL-18 was determined by its ability to induce IFN γ production from KG-1 cells in the presence of recombinant mouse IL-12.

- 480 pg/ml and 610 pg/ml of IFN γ is induced by 20 ng/ml and 40 ng/ml of recombinant rat IL-18, respectively.

References:

1. Konishi, K. *et al.* (1997) J. Immunol. Methods **209**:187.
2. Measurement of human and mouse interleukin 18. (2003) In Current Protocols in Immunology (Chapter 6, Unit 6.26). J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W. Strober (Eds.) Wiley, Hoboken, NJ.

Formulation: Lyophilized in PBS, without preservatives or carrier proteins.

Reconstitution: Reconstitute lyophilized material with 0.5 ml of distilled or deionized water. Dilute in a buffer containing carrier protein, aliquot, and store at $\leq -70^{\circ}\text{C}$. Avoid multiple freeze-thaw cycles. PBS with 1% BSA or a neutral media containing $\leq 10\%$ FCS are suitable buffers.

Warranty: Pierce products are warranted to meet stated product specifications and to conform to label descriptions. This warranty is limited to one year from date of sale for products handled and stored according to Pierce instructions. Pierce's sole liability for the product is limited to replacement of the product or refund of the purchase price. **Pierce products are supplied for laboratory or manufacturing applications only.** They are not intended for medicinal, diagnostic or therapeutic use. Pierce products may not be resold, modified for resale or used to manufacture commercial products without written approval from Pierce Biotechnology.

Additional Information: Manufactured in the U.S.A. Not of animal origin.

Expression: Mature rat IL-18 was expressed in *Pichia pastoris*, X-33.

- GenBank[®] Accession # P97636, amino acids 37 - 194.

Molecular Weight: Mature rat IL-18 has a MW of 18.3 kDa as determined by amino acid analysis.

Purity: >95% by SDS-PAGE analysis.

Endotoxin: 0.6 EU/µg

One EU corresponds to 0.1 ng of endotoxin (EC-6/USP standard).

Amino Acid Sequence: For protein verification, the expressed protein was N-terminal sequenced and begins with the following 10 amino acids: HFGRLHCTTA.

Homology: Please see the table on page 2.

Wanda Panter

Quality Control Signature

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3747 N. Meridian Road
Rockford, IL 61101
815-968-0747 or 800-487-4885
Fax: 815-968-7315
www.endogen.com

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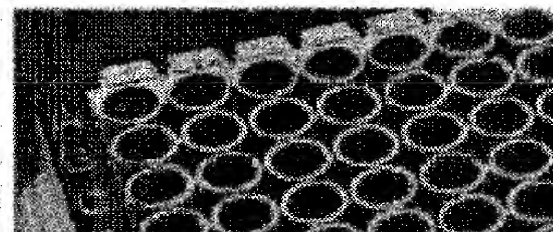
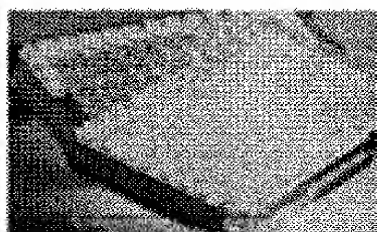
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IL-18 Homology Table (%):

Bovine IL-18	Canine IL-18	Equine IL-18	Feline IL-18	Human IL-18	Mouse IL-18	Ovine IL-18	Porcine IL-18	Rat IL-18	Rhesus macaque IL-18	
100	82.8	87.3	84.1	77.7	65	96.2	88.5	63.7	76.4	Bovine IL-18
-	100	87.3	88.5	73.9	64.3	84.7	87.9	64.3	73.2	Canine IL-18
-	-	100	89.2	78.3	67.5	86.6	90.4	66.9	77.7	Equine IL-18
-	-	-	100	77.1	63.7	85.4	87.3	62.4	76.4	Feline IL-18
-	-	-	-	100	64.3	78.3	75.8	63.1	96.2	Human IL-18
-	-	-	-	-	100	64.3	64.3	91.1	61.8	Mouse IL-18
-	-	-	-	-	-	100	89.8	64.3	77.1	Ovine IL-18
-	-	-	-	-	-	-	100	61.8	75.2	Porcine IL-18
-	-	-	-	-	-	-	-	100	60.5	Rat IL-18
-	-	-	-	-	-	-	-	-	100	Rhesus macaque IL-18

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www.endogen.com

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